L Number	Hits	Search Text	DB	Time stamp
6	492	(564/152).CCLS.	USPAT; US-PGPUB	2004/09/28 16:10

STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 133744

TO: Shailendra Kumar
Location: 5c03 / 5c18
Tuesday, September 28, 2004
Art Unit: 1621
Phone: 272-0640
Serial Number: 10 / 765602

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1A51
Phone: 272-2504

jan.delaval@uspto.gov

Search Notes

Access DB# 133744

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: S. Kumar Examiner #: 69594 Date: 9/28/04
Art Unit: 1621 Phone Number 2-0640 Serial Number: 10/765602
Mail Box and Bldg/Room Location: REM 5C03 5C18 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

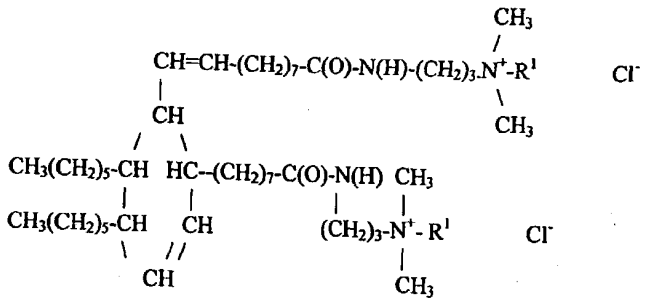
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Dimer amidopropyl dimethyl quaternary compounds

Inventors (please provide full names): Anthony J. O'Lenick Jr. et al

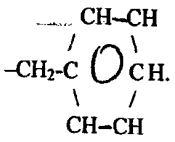
Earliest Priority Filing Date: 1/28/04

1. A quaternary compound conforming to the following structure:



wherein;

R^1 is selected from the group consisting of $-CH_3$, $-CH_2-CH(OH)CH_2OH$ and

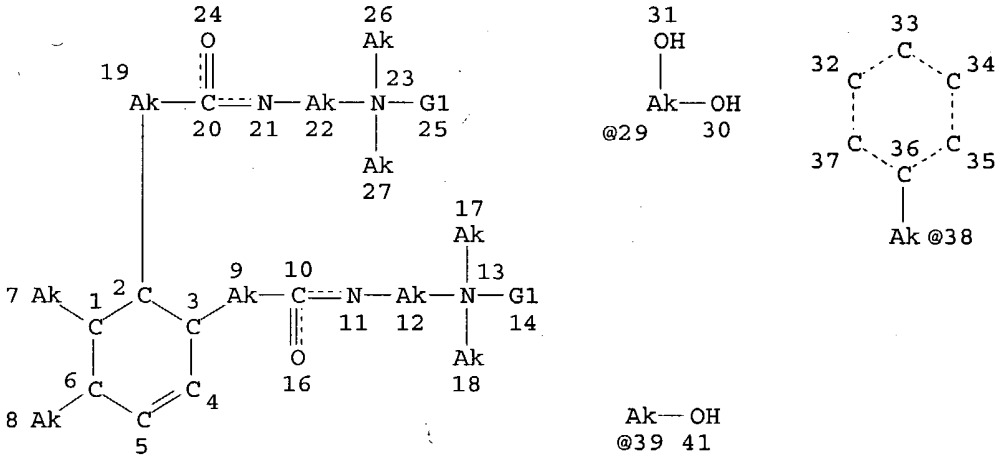


2. A quaternary compound of claim 1 wherein R^1 is $-CH_3$.

3. A quaternary compound of claim 1 wherein R^1 is $-CH_2-CH(OH)CH_2OH$.

Jan 9/28/04

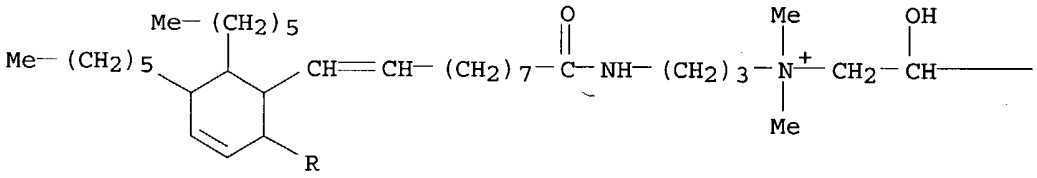
```
=> fil reg
FILE 'REGISTRY' ENTERED AT 11:59:58 ON 28 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   27 SEP 2004  HIGHEST RN 752974-11-1
DICTIONARY FILE UPDATES:  27 SEP 2004  HIGHEST RN 752974-11-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sta que l6
L4                STR
```

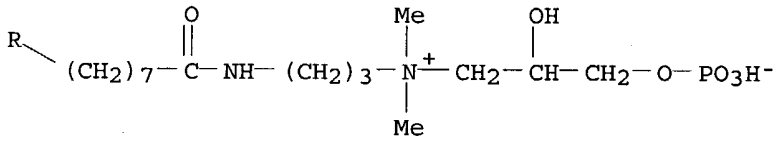



```
VAR G1=AK/29/38/39
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  38

STEREO ATTRIBUTES: NONE
L6             3 SEA FILE=REGISTRY SSS FUL L4

100.0% PROCESSED  39531 ITERATIONS                      3 ANSWERS
SEARCH TIME: 00.00.02


=> d ide can tot l6
```

L6 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 360560-90-3 REGISTRY
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-(17,20,20-trihydroxy-15,15-dimethyl-20-oxido-10-oxo-19-oxa-11-aza-15-azonia-20-phosphaeicos-1-en-1-yl)-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-[2-hydroxy-3-(phosphonooxy)propyl]-N,N-dimethyl-, bis(inner salt), disodium salt (9CI) (CA INDEX NAME)
MF C52 H102 N4 O12 P2 . 2 Na
SR CAS Client Services
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PAGE 1-A





●2 Na

PAGE 1-B

— CH_2 — O — PO_3H^-

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

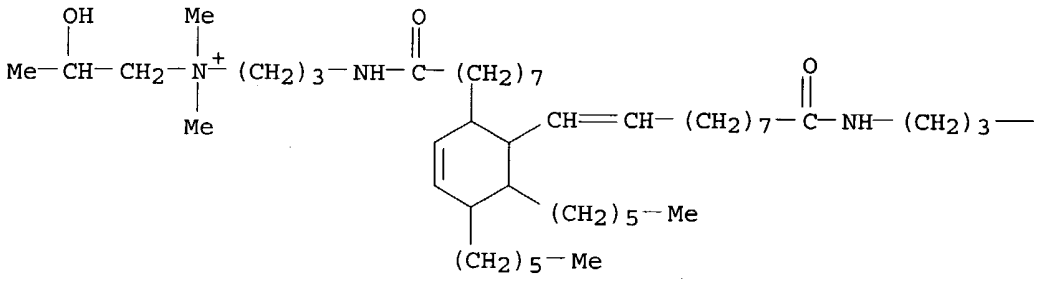
REFERENCE 1: 136:42546

L6 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 147831-24-1 REGISTRY
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-[10-[[3-[(2-hydroxypropyl)dimethylammonio]propyl]amino]-10-oxo-1-decenyl]-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-(2-hydroxypropyl)-N,N-dimethyl-, dinitrate (salt) (9CI) (CA INDEX NAME)
MF C52 H102 N4 O4 . 2 N O3
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

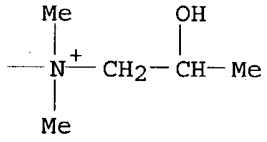
CM 1

CRN 147831-23-0
CMF C52 H102 N4 O4

PAGE 1-A

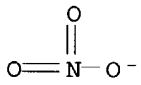


PAGE 1-B



CM 2

CRN 14797-55-8
CMF N O3

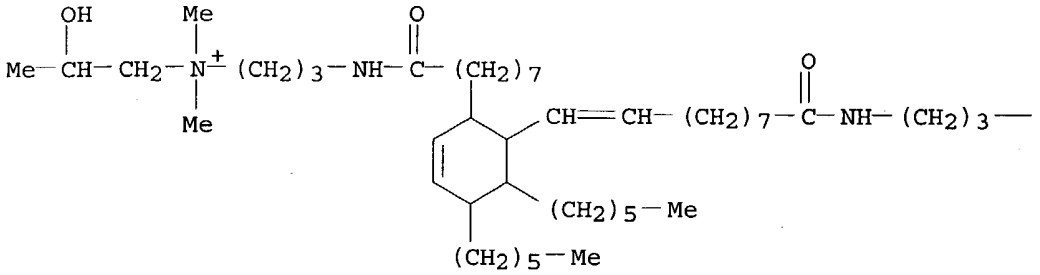


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

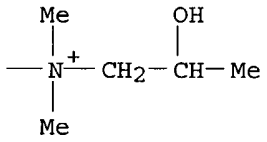
REFERENCE 1: 118:256656

L6 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 147831-23-0 REGISTRY
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-[10-[[3-[(2-hydroxypropyl)dimethylammonio]propyl]amino]-10-oxo-1-decenyl]-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-(2-hydroxypropyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C52 H102 N4 O4
CI COM
SR CA

PAGE 1-A



PAGE 1-B



```
=> d his

     (FILE 'HOME' ENTERED AT 11:53:34 ON 28 SEP 2004)
               SET COST OFF

     FILE 'REGISTRY' ENTERED AT 11:53:43 ON 28 SEP 2004
L1             STR
L2           0 S L1 CSS SAM
L3           1 S L1 SAM
L4             STR L1
L5           1 S L4
L6           3 S L4 FUL
               SAV L6 KUMAR765/A TEMP

     FILE 'HCAOLD' ENTERED AT 11:59:08 ON 28 SEP 2004
L7           0 S L6

     FILE 'HCAPLUS' ENTERED AT 11:59:12 ON 28 SEP 2004
L8           2 S L6
L9           1 S L8 AND (O LENICK? OR OLENICK? OR LENICK?)/AU,PA,CS
L10          2 S L8,L9

     FILE 'USPATFULL, USPAT2' ENTERED AT 11:59:44 ON 28 SEP 2004
L11          1 S L6

     FILE 'REGISTRY' ENTERED AT 11:59:58 ON 28 SEP 2004

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 12:00:09 ON 28 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 28 Sep 2004 VOL 141 ISS 14
FILE LAST UPDATED: 27 Sep 2004 (20040927/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l10 all hitstr tot

L10 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:914993 HCAPLUS
DN 136:42546
ED Entered STN: 19 Dec 2001
TI Dimer amidopropyl dimethyl phospholipids as barrier compounds
IN Smith, Scott; Smith, Dean; **O'Lenick, Anthony J., Jr.**
PA Colonial Chemical Inc, USA
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM A61K007-42
ICS A61K009-127; A61K031-685; A61K031-66; G01N033-92; C07F009-02
NCL 424059000
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 23, 24
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6331293	B1	20011218	US 2001-872908	20010604
PRAI US 2001-872908		20010604		

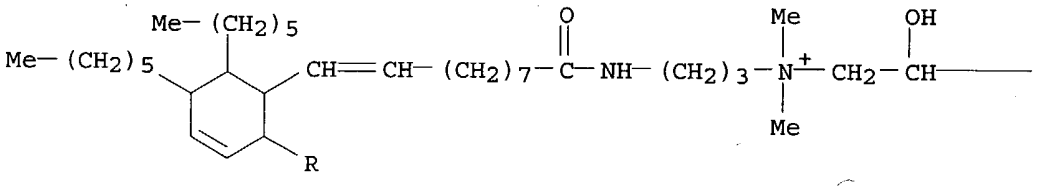
CLASS

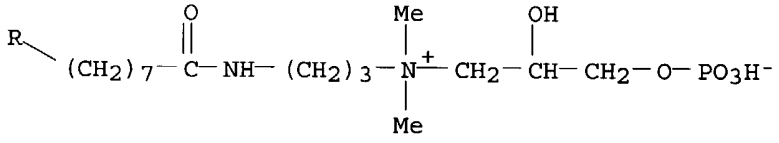
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6331293	ICM	A61K007-42
	ICS	A61K009-127; A61K031-685; A61K031-66; G01N033-92; C07F009-02
	NCL	424059000

AB The present invention relates to compds. and, more particularly, to a class of compds. having specific quaternized amine based upon a dimer acid amido amine linked to specific phosphate esters. Dimer acid is a C-36 diacid having a cyclic structure and two amine groups that allow for the synthesis of a high mol. weight material phospholipid composition which is extremely substantive to human skin and are well tolerated by human tissue making them suitable for use preparation of barrier products for personal care applications. For example,.
ST dimer amidopropyl dimethyl phospholipid prepn barrier cosmetic
IT Cosmetics
(barrier; dimer amidopropyl di-Me phospholipids as barrier compds.)
IT Phospholipids, biological studies
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(dimer amidopropyl di-Me phospholipids as barrier compds.)
IT **360560-90-3P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(dimer amidopropyl di-Me phospholipids as barrier compds.)
IT 106-89-8, Epichlorohydrin, reactions 109-55-7 47818-40-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(dimer amidopropyl di-Me phospholipids as barrier compds.)
IT 26807-13-6P, 3-Chloro-2-hydroxypropyl-phosphate 380413-64-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(dimer amidopropyl di-Me phospholipids as barrier compds.)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Diery; US 3856893 1974 HCAPLUS
IT **360560-90-3P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(dimer amidopropyl di-Me phospholipids as barrier compds.)
RN 360560-90-3 HCAPLUS
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-(17,20,20-trihydroxy-15,15-dimethyl-20-oxido-10-oxo-19-oxa-11-aza-15-azonia-20-phosphaeicos-1-en-1-yl)-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-[2-hydroxy-3-(phosphonooxy)propyl]-N,N-dimethyl-, bis(inner salt), disodium salt (9CI) (CA INDEX NAME)

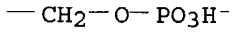
PAGE 1-A





●2 Na

PAGE 1-B



L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1993:256656 HCAPLUS
DN 118:256656
ED Entered STN: 26 Jun 1993
TI Coating of plastic moldings after treatment with quaternary ammonium compound
IN Akeboshi, Koji; Uohashi, Hiromichi; Shimizu, Shigeru; Hayashibe, Kunihiko
PA Nihon GE Plastics, Ltd., Japan; Yoshimura Oil Chemical Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent

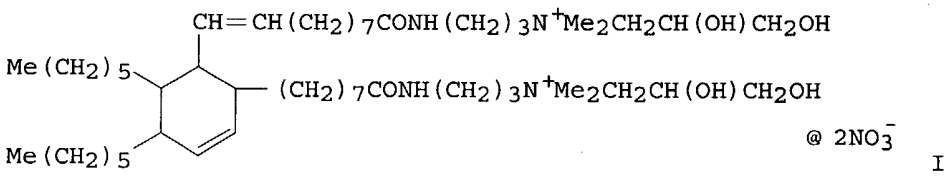
LA Japanese
IC ICM C08J007-04
ICS B05D003-10; B05D007-02
CC 42-2 (Coatings, Inks, and Related Products)
Section cross-reference(s): 46
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04202336	A2	19920723	JP 1990-333351	19901129
PRAI JP 1990-333351		19901129		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 04202336	ICM	C08J007-04
	ICS	B05D003-10; B05D007-02

GI



I

AB Plastic moldings such as automobile bumpers or bodies are treated with surfactants containing ≥30% (non)cyclic dimer or trimer acid-based quaternary ammonium compds. before coating with primers to ensure low surface resistivity and give smooth top coatings. A GTX 6006 (polyamide-polyoxyphenylene blend) molding was soaked in aqueous H3PO4, washed with water, dried, soaked in iso-PrOH containing 1% I (Elic PS 920), and dried at 75° to give a sheet with resistivity 2.3 + 108 Ω-cm initially and 7.7 + 108 Ω-cm after 30 min at 160°, vs. 6.8 + 108 and 1012, resp., with C17H35CONH(CH2)3N+Me2CH2CH2OH NO3- instead of I.

ST dimer acid ammonium surfactant primer; trimer acid ammonium surfactant primer; automobile coating primer surfactant pretreatment; bumper automobile coating surfactant

IT Surfactants
(ammonium compds., plastic moldings treated by, for primer and topcoat smoothness)

IT Coating process
(of plastic moldings, surfactant treatment in, for primer and topcoat smoothness)

IT Automobiles
(bumpers, coating of, ammonium surfactant in, for primer and topcoat smoothness)

IT **147831-24-1**
RL: USES (Uses)
(surfactants, plastic moldings pretreated by, for primer and topcoat smoothness)

IT **147831-24-1**
RL: USES (Uses)
(surfactants, plastic moldings pretreated by, for primer and topcoat smoothness)

RN 147831-24-1 HCAPLUS

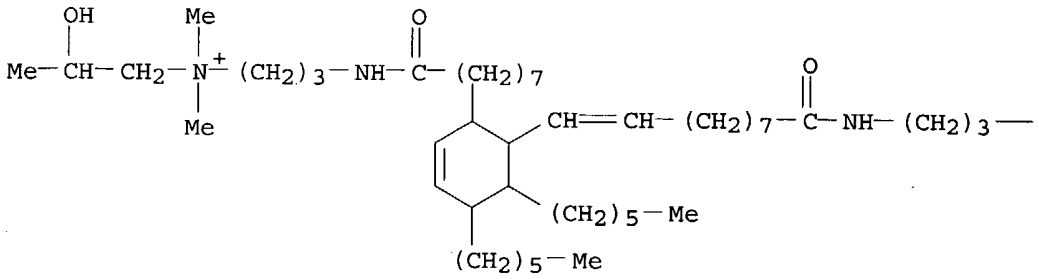
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-[10-[[3-[(2-hydroxypropyl)dimethylammonio]propyl]amino]-10-oxo-1-decenyl]-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-(2-hydroxypropyl)-N,N-dimethyl-, dinitrate

(salt) (9CI) (CA INDEX NAME)

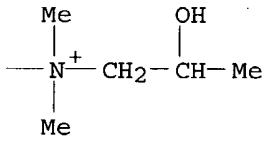
CM 1

CRN 147831-23-0
CMF C52 H102 N4 O4

PAGE 1-A

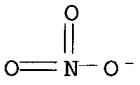


PAGE 1-B



CM 2

CRN 14797-55-8
CMF N O3



=> fil uspatall
FILE 'USPATFULL' ENTERED AT 12:00:52 ON 28 SEP 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:00:52 ON 28 SEP 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr l11

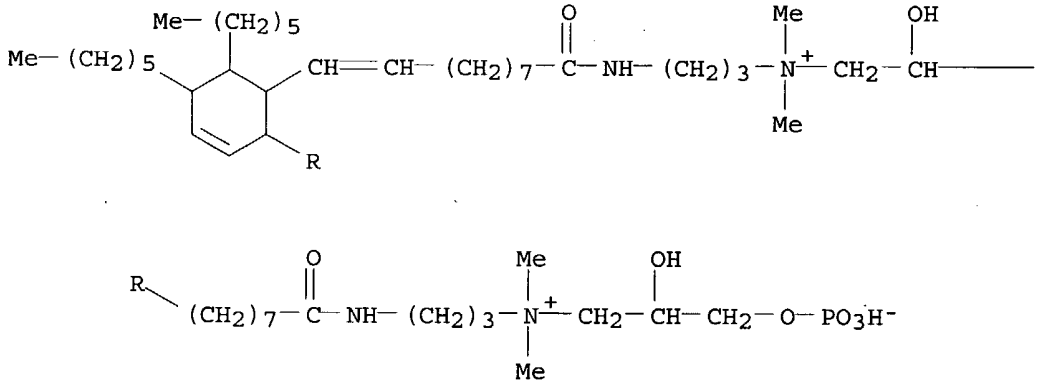
L11 ANSWER 1 OF 1 USPATFULL on STN
AN 2001:231045 USPATFULL
TI Dimer amidopropyl dimethyl phospholipids as barrier compounds
IN Smith, Scott, Chattanooga, TN, United States
Smith, Dean, Chattanooga, TN, United States
O'Lenick, Jr., Anthony J., Dacula, GA, United States
PA Colonial Chemical INC, South Pittsburgh, TN, United States (U.S. corporation)

PI US 6331293 B1 20011218
AI US 2001-872908 20010604 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Pryor, Alton
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 192
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

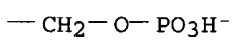
AB The present invention relates to compounds and, more particularly, to a class of compounds having specific quaternized amine based upon a dimer acid amido amine linked to specific phosphate esters. Dimer acid is a C-36 diacid having a cyclic structure and two amine groups that allow for the synthesis of a high molecular weight material phospholipid composition which is extremely substantitive to human skin and are well tolerated by human tissue making them suitable for use preparation of barrier products for personal care applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **360560-90-3P**
(dimer amidopropyl di-Me phospholipids as barrier compds.)
RN 360560-90-3 USPATFULL
CN 1-Propanaminium, 3-[[8-[4,5-dihexyl-6-(17,20,20-trihydroxy-15,15-dimethyl-20-oxido-10-oxo-19-oxa-11-aza-15-azonia-20-phosphaeicos-1-en-1-yl)-2-cyclohexen-1-yl]-1-oxooctyl]amino]-N-[2-hydroxy-3-(phosphonooxy)propyl]-N,N-dimethyl-, bis(inner salt), disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

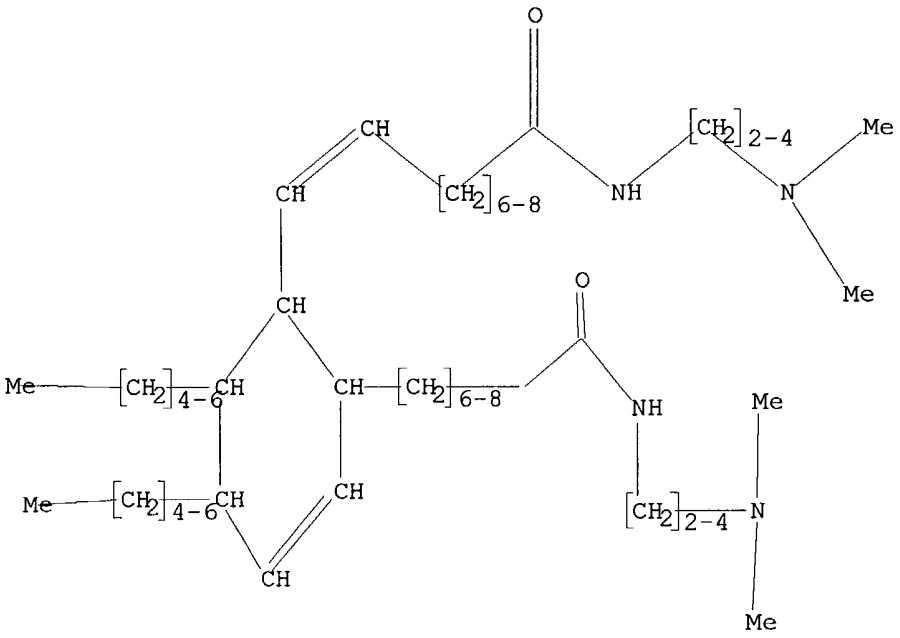


PAGE 1-B



=>

```
  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:36:08 ON 28 SEP 2004

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 09:36:18 ON 28 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   27 SEP 2004  HIGHEST RN 752974-11-1
DICTIONARY FILE UPDATES:  27 SEP 2004  HIGHEST RN 752974-11-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\STNEXP4\10765602.str

L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
```



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 09:36:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      1 TO ITERATE

100.0% PROCESSED       1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 09:36:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      4 TO ITERATE

100.0% PROCESSED       4 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1
```